Appl. No. 09/840,762 Amdt. dated February 24, 2004 Amendment under 37 CFR 1.116 Expedited Procedure Examining Group

Listing of Claims:

1-15. (Canceled)

16. (Previously presented) An isolated polypeptide comprising an amino acid sequence, which consists of a sequence from residue 441 to residue 676 as set forth in SEQ ID NO:2, wherein the polypeptide catalyzes oxidation of o-dianisidine (ODA) when complexed with a vanadium ion, has at least 80% amino acid sequence identity to a polypeptide as set forth in SEQ ID NO:2, and has a molecular weight of between about 40 to about 60 kDa.

17-19. (Canceled)

- 20. (Original) The isolated polypeptide of claim 16, wherein the polypeptide has a molecular weight of about 58 kD.
- 21. (Original) The isolated polypeptide of claim 16, wherein the polypeptide has a molecular weight of about 40 kD.
- 22. (Original) The isolated polypeptide of claim 16, wherein the polypeptide is immobilized on a solid surface.
- 23. (Original) The isolated polypeptide of claim 16, wherein the polypeptide further comprises a cleavable linker sequence.
- 24. (Original) The isolated polypeptide of claim 23, wherein the cleavable linker sequence is an enterokinase cleavable linker sequence.
- 25. (Original) The isolated polypeptide of claim 16, wherein the polypeptide further comprises an epitope tag.
- 26. (Original) The isolated polypeptide of claim 25, wherein the epitope tag comprises a plurality of histidine residues.

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- 27. (Original) The isolated polypeptide of claim 16, wherein the polypeptide further comprises a thioredoxin sequence.
- 28. (Original) A method for enzymatically halogenating a compound, the method comprising contacting the compound with an isolated polypeptide of claim 16.
 - 29. (Original) The method of claim 28, wherein the compound is a protein.
- 30. (Original) A method for enzymatically oxidizing a compound, the method comprising contacting the compound with an isolated polypeptide of claim 16.